

J 60201-65 EMT(m)/BPF(c)/BPF(s)/I Pg.4/Pt-4 GS/JAJ/RM
ACCESSION NR: AT5019605 UR/0000/64/000/000/0092/0090

AUTHOR: Korotkov, A. A.; Kalinicheva, N. A.; Pichushkina, K. P.

TITLE: Effect of contaminants in titanium tetrachloride on the process of isoprene polymerization and the polymer properties

SOURCE: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka. Polimerizatsiya izoprena kompleksnymi katalizatorami (Polymerization of isoprene by complex catalysts). Moscow, Izd-vo Khimiya, 1984, 82-90

TOPIC TASS: contaminant, titanium tetrachloride, isoprene polymerization, polymer property, Ziegler catalyst

ABSTRACT: The effect of contaminants commonly present in commercial grade titanium tetrachloride (CO_2 , SOCl_2 , POCl_3 , CS_2 , COCl_2 , SiCl_4 , and acetyl chlorides) on isoprene polymerization with Ziegler-type catalyst was studied at 25-30°C in an isopentane solvent. The polymerization mixtures contained 15 mol % isoprene based on isopentane solvent. The products were quenched with ethyl alcohol after 2 hours polymerization. The effect of individual contaminants was judged in terms of product characteristic viscosity and tensile strength of the vulcanized product samples measured at 20° and 100°C. A complex of TiCl_4 with $\text{Al}(\text{iso-C}_4\text{H}_9)_3$ served as a catalyst.

Card 1/2

ACCESSION NK: AT5019605

It was found that HCl, $TiOCl_2$, CCl_4 , $SiCl_4$, VOC_3 , and $TiCl_4$, strongly inhibit isoprene polymerization even if present in very minute concentrations. HCl is the major contributor to the catalytically harmful action of the $TiOCl_2$ -HCl joint system (formed as a result of interaction of water with $TiCl_4$). The following $TiCl_4$ contaminants are little harmful: $FeCl_3$ up to 0.05 wt. %, $AlCl_3$ up to 0.05 wt. %, C_6Cl_6 up to 0.1 wt. %, and $SOCl_2$ up to 0.1 wt. %. Preparation of high activity complex polymerization catalyst requires freshly distilled high purity $TiCl_4$. Orig. art. has 10 tables and 1 figure.

ASSOCIATION: none

SUBMITTED: 24Oct64

ENCL: 00

SUB CODE: IC, GC

NO RSP SOV: 007

OTHER: 005

Card 1/2

PICHYGIN, A. V.

24859. PICHYGIN, A. V. Mikrostruktura Torfa. Trudy Yubileinoy Sessii, Posnyashch,
Stoletiya So Dnya Rozsheniya Doktyorinyevo, N. L. 1949, S. 427-43
U

SC: Letopis' No. 22, 1949

FICHA X A.; SUDOLAK, F., KAHAN, C., P.

On the 1st of October we went to the girls' school in the afternoon. The girls' class gymnasium was very large.

1. Symp. klin. Lek. für UFGS + Anästhesie, mindestens Prof. T. Schwerz statt überbetriebene Lek. für UFGS v. Luis v., und nicht erst der F. D. nicht

(PUB. M. 111 (MENSAJES A. 101.) (1.100) CCA LA 10 (S. B. S.)

RECORDED BY [redacted]

Reproduction of this document
the duty of [redacted] to [redacted]

To [redacted] [redacted] of [redacted]
September [redacted]

PICK, E.: T, O.

"Technical maintenance of the Zetor Super tractor."

P. 10. (Ministerstvo zemedelství Praha, Československá.) Vol. 2, no. 1, Jan. 1957

SO: Monthly Index of East European Accession (MIA) LC, Vol. 1, No. 5, May 1958

PICK, E.

"Durability of gearing."

p. 1 (SBORNÍK RA A MECHANISACE A ELEKTRIFIKACE LÉMĚDELSTVÍ.)
Praha, Czechoslovakia.) Vol. 31, No. 1, Feb. 1958

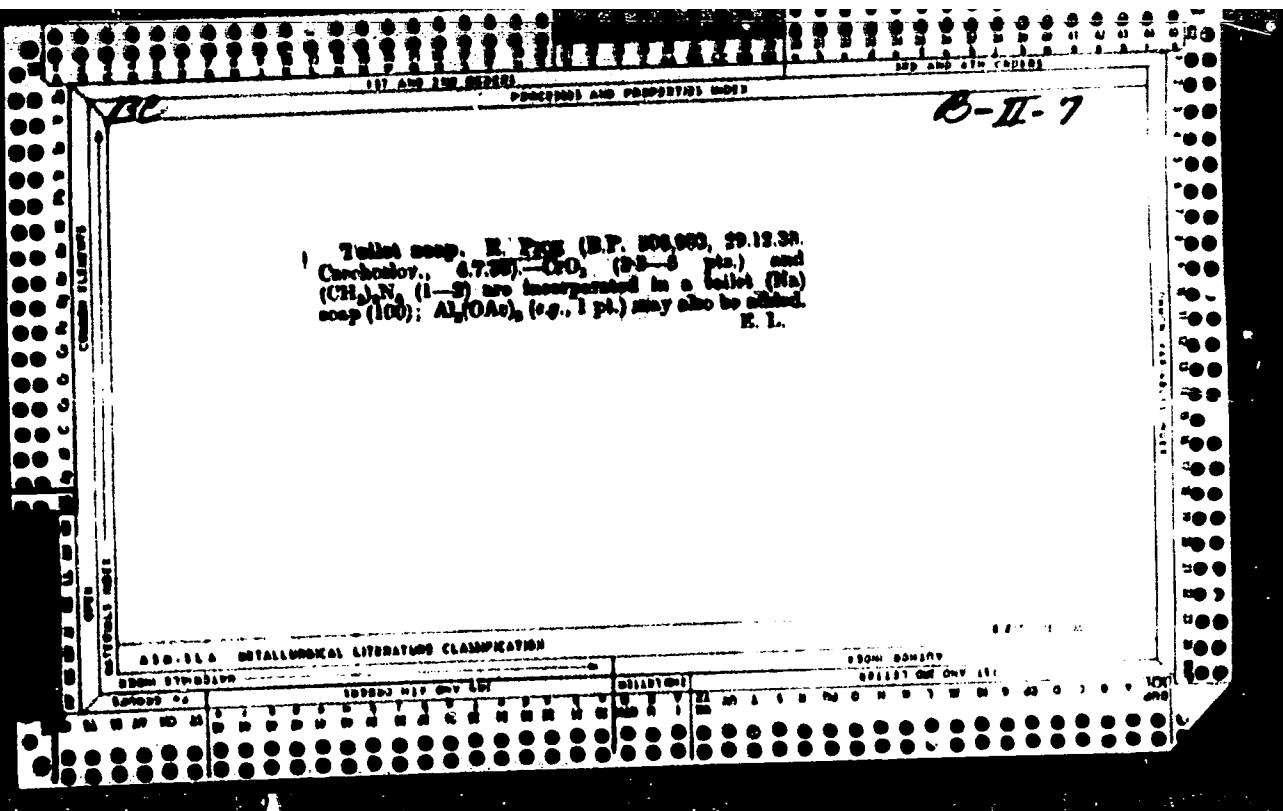
SO: Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 5, May 1958

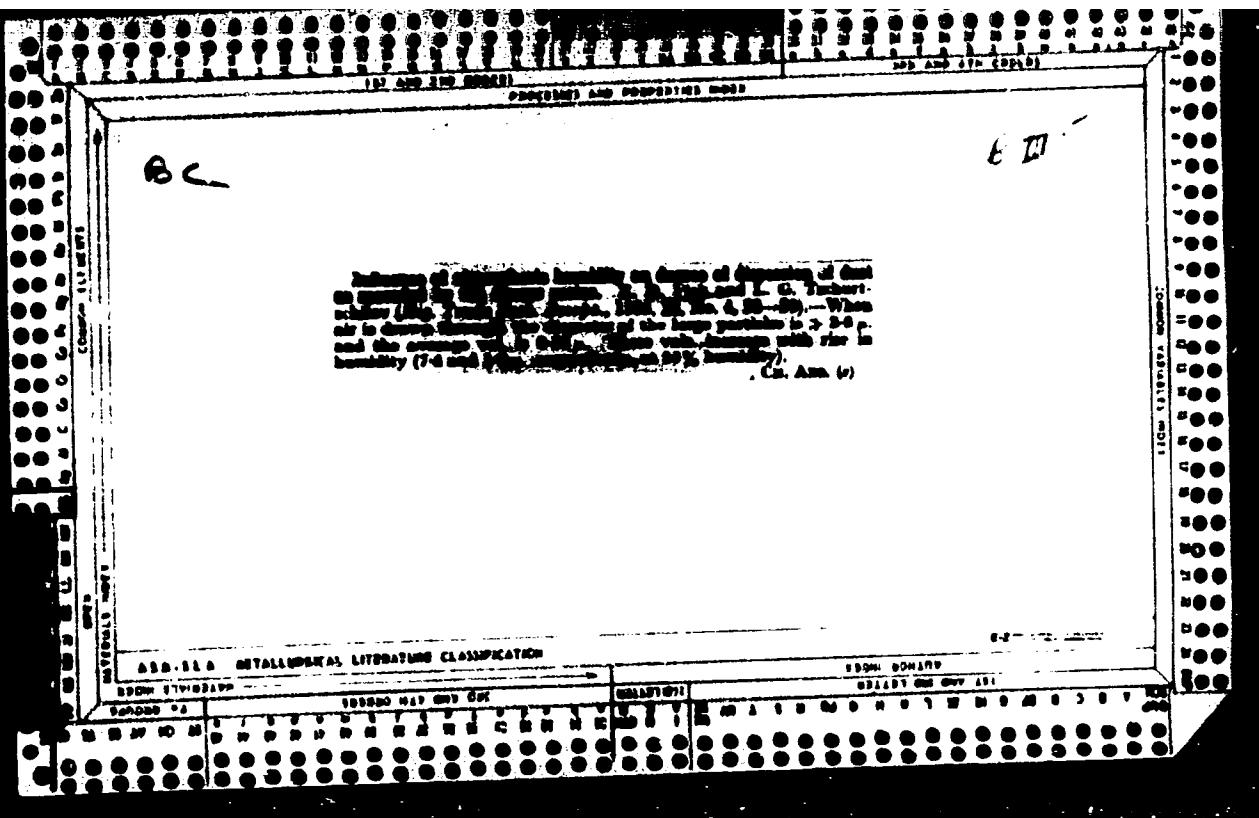
Praha, 1950.

Experiences from observing the wear and life of Zetor Super tractors. (Technical)

z. 444. (Mechanické Zemědělství. Vol. 7, No. 1, ct. 1 '57, Praha, zemědělské)

Monthly Index of last year Agricultural (Vol. 7), Vol. 7, No. 2,
February 1958



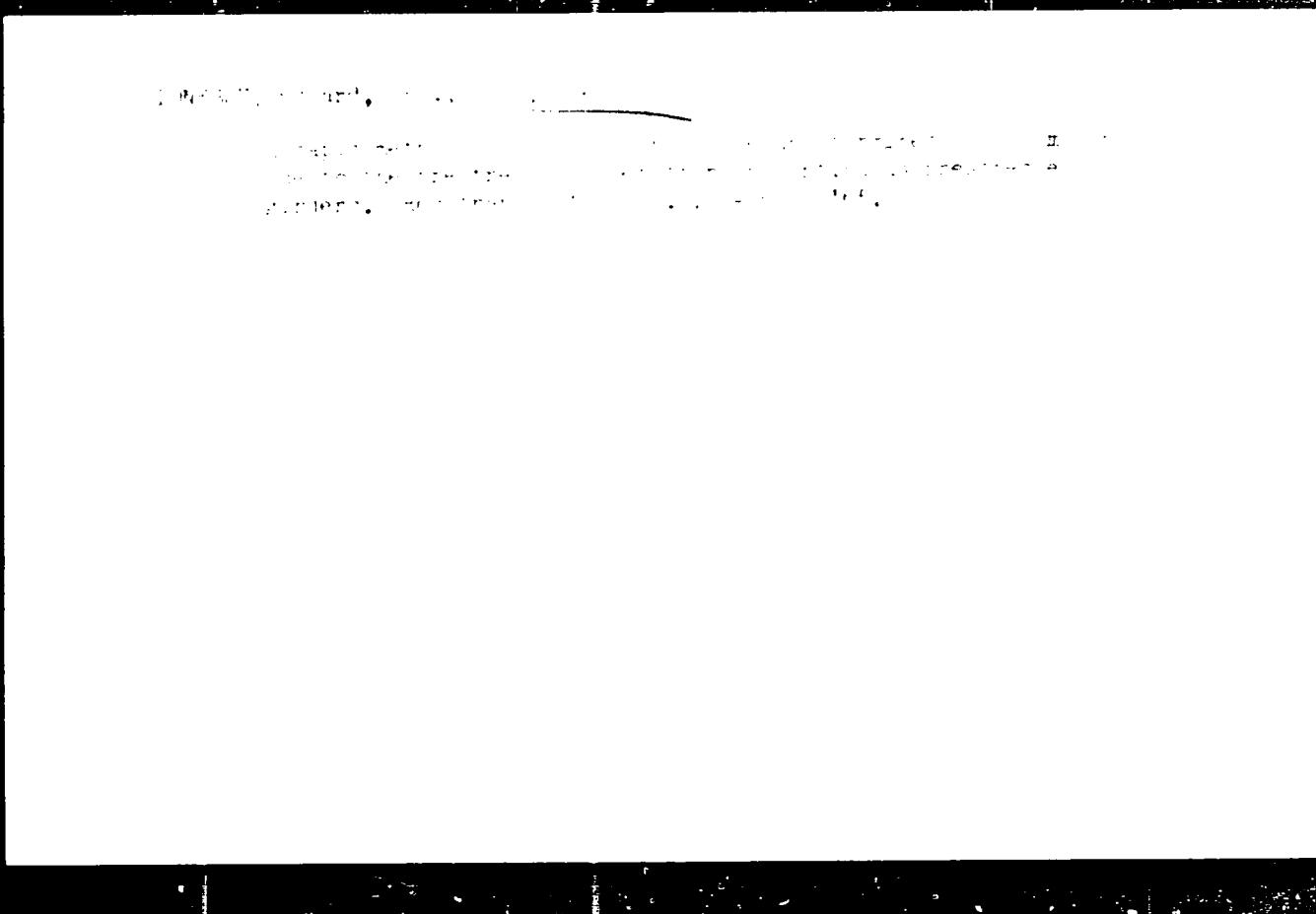


Influence of atmospheric humidity on the degree of dispersion of dust as measured by the Owens meter. H. D. Fligh and L. G. Charkiewicz. *Hig. Trade Test. Equipment* 18, No. 4, 28-9 (1938); *Chemical & Industrial* 89, 253.—A study of the factors governing the characteristics of the Owens dust meter whereby it has a tendency selectively to register fine particles proved conclusively that there exists a definite relationship between the humidity of the air passing through the instrument and the fineness of the sized particle. When air is drawn through, the diam. of the large particle does not exceed 8.6 μ , and the av. diam. is 0.85 μ ; these diam. increase with rise in humidity, reaching 7.4 and 1.8 μ , resp., at 80% humidity. It can be supposed that the selectivity of the Owens meter is due to a selective distribution of condensed moisture on the smaller particles of dust, which is favored by the impact velocity of the air against the plate and by the smallness of the condensation chamber. It is thus closely dependent on the principle of operation of the instrument.

A. Papánszky - Csepregi

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012408

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012408



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012408

K. BENNETT, V.; FRIED, V.; J. H. S.

... Institut für Politikwissenschaften und Internationale Beziehungen der Universität zu Köln.

... Institut für Politikwissenschaften und Internationale Beziehungen der Universität zu Köln.

CZECHOSLOVAKIA

VESELY, F; FRIED, V; PICK, J.

Institute of Physical Chemistry of the Technical High School
of Chemistry, Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications,
No 6, 1963, pp 1479-1466

"Equal Weight Fluidity-Fluidity in the System n-Butylacetate-
Water-Phenol."

PICK, J.

CZECHOSLOVAKIA

VESELY, P; FRIED, V; PICK, J.

Institute of Physical Chemistry of the Technical High School
of Chemistry, Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications,
No 6, 1963, pp 1459-1466

"Equal Weight Fluidity-Fluidity in the System n-Butylacetate-
Water-Phenol."

NOVAK, J.; FRIED, V.; PICK, J.

Solubleness of carbon dioxide in water under various pressures and temperatures. Coll Gz Chem 26 no.9:2266-2270 '61.

1. Institut fur physikalische Chemie, Technische Hochschule fur Chemie, Prag.

(Carbon dioxide)

FRIED, V.; PICK, J.

Liquid vapor equilibria. Part 25: System phenol-acetophenone at reduced pressure. Coll Cz Chem 26 no.4:954-960 Ap '61.

1. Department of Physical Chemistry, Institute of Chemical Technology, Prague.

(Vapors) (Phenol) (Acetophenone)

PICK J

Distr: 4E3d/4E2c(j)

The vapor pressure of cyclohexanol and of cyclohexylamine. J. Novák, J. Matouš, and J. Pick (Vysoká škola chemicko-technol., Prague). Collection Czechoslov. Chem. Commun. 23, 683-5(1980).—The relations of the vapor pressures of cyclohexanol (I) and of the cyclohexylamine (II)

were detd. ebulliometrically in the range from 60 up to 760 mm. Hg. The results were expressed by the equations:
for I: $\log P = 6.5562 - 1087.8/(t + 129.2)$ and for II:
 $\log P = 6.6272 - 1203.2/(t + 186.7)$. E. Erdős

21.6
111
COW

1
1-Bw (NB)
1-Bw (Bw)
2

NOVAK, J.; MATOUS, J.; PICK, J.

Balance: liquidity-steam. XXIV. Balance: liquidity-steam in cyclohexylamine-cyclohexanol system. Coll Cz Chem 25 no.9:2405-2413
S '60. (FEAI 10:9)

1. Institut fur physikalische Chemie, Technische Hochschule fur Chemie,
Prag.

(Phase rule and equilibrium) (Cyclohexamine)
(Cyclohexanol) (Systems(Chemistry))

PICK, Jaroslav, MUDr.

Tasks of a regional health center in the new Czechoslovakian territorial organization. Cesk. zdravot. 8 no.5:252-256 My '50.

1. Vedouci krajskeho zdravotnickeho odbouru v Pardubicich.
(STATE MEDICINE)

1. Subject: ~~Chemical Education~~ -
2. Description: Textbook of Chemistry. Theory of Acids and
Bases. Author: G. V. D. Tiers. Date: 1949.
3. Location: ~~Chemical Education~~
4. Classification: University of the Royal & Colonial Institute. 1950.
5. Date: October 1950. Date: 1950.

Page: 1/1

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012408

LAWRENCE, KANSAS, U.S.A.

2 Sept. 1945 - Dear Sirs:

As you will see from my letter of 1st Aug. I am enclosing a copy of the "Lawrence Journal World" of 28th Aug. 1945.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012408

PICK, J.

"Calculation of the equilibrium data of a special type of ternary liquid mixtures" by Horst Schubert. Reviewed by J. Pick. Chem listy 57 no.4:409 Ap '63.

PICK, J.

5(4)

PHASE I BOOK EXPLOITATION

CZECH/2501

Hala, Eduard, Jiri Pick, Vojtech Fried, and Otakar Vilim

Rovnovaha kapalina--para (Liquid--Vapor Equilibrium) Praha, Nakladatelstvi Ceskoslovenske Akademie Ved, 1955. 321 p. (Series: Ceskoslovenska Akademie ved. Studie a prameny. Sekce chemicka, sv. 10) Errata slip inserted. 38,600 copies printed.

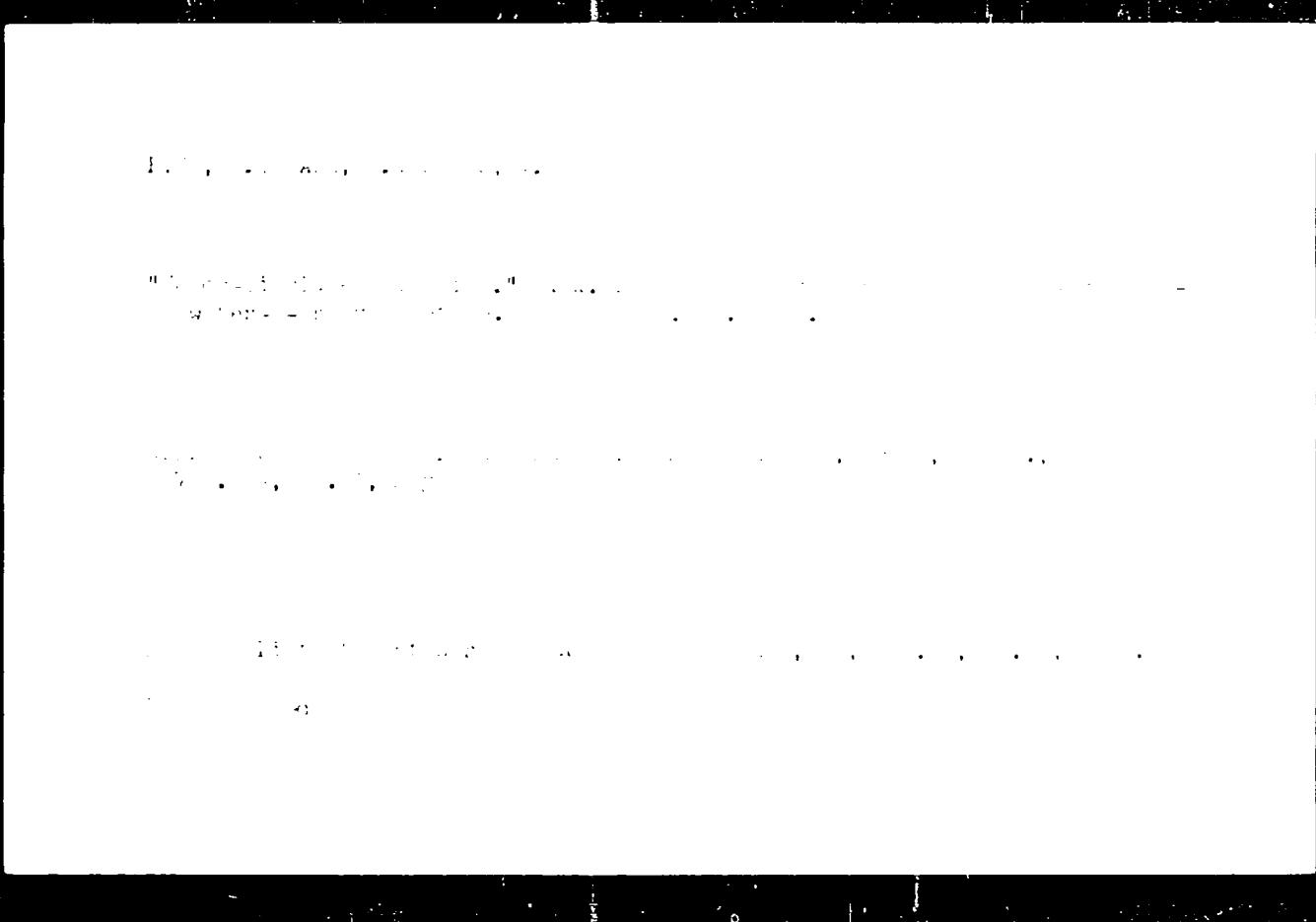
Scientific Ed.: Jan Pinkava, Doctor, Engineer; Resp. Ed.: Jaroslav Vacha, Doctor.

Full English translation under the title Vapor-Liquid Equilibrium
[Translator: G. Standart] published in 1958 by Pergamon Press Ltd.
Library of Congress call number: TP156.E65R613.

Card 1/1

LIS/gmp
11-10-59

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012408



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012408

Country : Czechoslovakia B-8
Category : Thermodynamics. Thermochemistry. Equilibria.
Physico-Chemical Analysis. Phase Transitions.
Abs. Jour. : Ref Zhur-Khimiya, No 6, 1959 18436
Author : Pick, J.; Hala, E.; Fried, V.
Institut. :
Title : Liquid-Vapor Equilibrium. XIX. Phase Equilibria
in the System n-Propyl Alcohol - Water -
n-Propyl Acetate.
Orig Pub. : Chem. listy, 1958, 52, No 4, 561-566

Abstract : Ebulliometric studies of binodal curve at
normal boiling temperature and of correlation between
normal boiling temperature and composition of homogenous
liquid phase, in the case of the demixing system n-propyl
alcohol (I) - water (II) - n-propyl acetate (III). Liquid -
vapor equilibrium in I - III system was studied using a
flow apparatus; results were correlated according to empiric
equation of relative volatility. Equilibrium in II - III
system was calculated using data on mutual solubility at
normal boiling temperature. For I - II system literature
data were used. From all these data were calculated the
constants of Van Laar equations of third order for ternary

Card: 1/2

Viscosity of solutions of nonelectrolytes. Vojtěch Prštík,
Edward Hala, and Ján Pick (Výzkumné ústav chém.-technické,
Praha). Čes. Akad. Nauk, 1007-10 (1958).—An empirical
series expansion for the conc. dependence of the viscosity
of nonelectrolyte solns. is suggested in the form: $\log \eta =$
 $= z_1 \log z_1 + z_2 \log z_2 + z_{12} (b + c(z_1 z_2) + d(z_1 - z_2))$
+ ...).

CZECHOSLOVAKIA / Physical Chemistry. Thermodynamics. B
Thermochemistry. Equilibria. Phase
Changes. Physico-chemical Analysis.

Abs Jour : Ref Zhur - Khimiya, No 12, 1959, No. 41572

Author : Fried, Vojtech; Hala, Eduard; Pick, Jiri

Inst : Not given

Title : Viscosity of Nonelectrolytic Solutions

Orig Pub : Chem. listy, 1958, 52, No 6, 1007-1010

Abstract : An equation describing the solution's viscosity for nonelectrolytes has been proposed: $\lg \eta_{\text{E}} (\text{cm}^2)$ = $X_1 \lg \eta_1 + X_2 \lg \eta_2 + \dots$ $\lg \eta_{\text{E}}$, where η_{E} is the mixture's viscosity, η_i is the component's viscosity while η_{E} is the excess viscosity and X_i is the molecular fraction. The last term

Card 1/3

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CZECHOSLOVAKIA / Physical Chemistry. Thermodynamics. 3
Thermochemistry. Equilibria. Phase
changes. Physico-chemical Analysis.

Abs Jour : Ref Zhur - Khimiya, No 12, 1959, No. 41572

a mixture of acetone and ethanol. Three constants were required for the system CH₃COH-dichloroethane. A relationship between the excess viscosity and excess free enthalpy, $\Delta E_E = \Delta G_E/2.45 RT$, was deduced from Eyring's Theory. It is presumed that analogous methods may be applied to 3-component systems.
-- J. Knessl

Card 3/3

17

PICK, J.

Distr: 1E2c(j)

Liquid-vapor equilibria. XIX. Phase equilibria in the system PROOH-water-glycerol, water-
ethanol-NaOH, and Vaseline-Water (V. V. Pechatnikov,
Prague). Chem. Asym. No. 161-(1945); C.A. 31,
2000. The binodal curve at the normal b.p. and the dependence of the b.p. on the concn. of the homogeneous
liquid were determined. osmometrically in the system PROOH-
H₂O-PROAc. In the binary system PROOH-H₂O,
the vapor-liquid equil. was dealt, and the relative volatility was
correlated empirically. The vapor-liquid equil. in the H₂O-
PROAc system was taken, from the mutual eqil., at the b.p.
From these and published data on the system PROOH-H₂O,
the const. of the van Laar-Landolt equations for the ternary
system were calculated; the ternary const. was cited, from the
vapor-liquid equil. measurement on the ternary system.
A p-x diagram of the ternary system is given. The most
notable concn. range for the data of the b.p. const. is
discussed.

90

CZECHOSLOV. KI. / Atomic and Molecular Physics - Liquids

D-12

Abs Jour : Ref Zhur - Fizik , N 4, 1959, N 7979

Author : Frič Vojtěch, Hala Eduard, Pick Jiří

Inst : -
Title : Viscosity of Solut... of Non-electr lyts.

Cr. Ref : Chem. Listy, 1960, N 6, 1007-1010

Abstract : An expression is obtained for the dependence of the viscosity of solutions of non-electrolytes on the concentration, for which a minimum number of experimental data is required. The author has calculated viscosities of the solutions of water-methanol in dichloroethane, testing in the interval 0-20% and compared the calculated values with the experimental ones. The results are in agreement.

Cr. : 174

W, J.; T., L.; E., R.

Individuals, living in various parts of the country, are being interviewed by telephone, mail, and personal contact. These individuals are asked to furnish information concerning their knowledge of the following persons:

John G. Edwards, Jr., 31, of [REDACTED]
[REDACTED] [REDACTED]

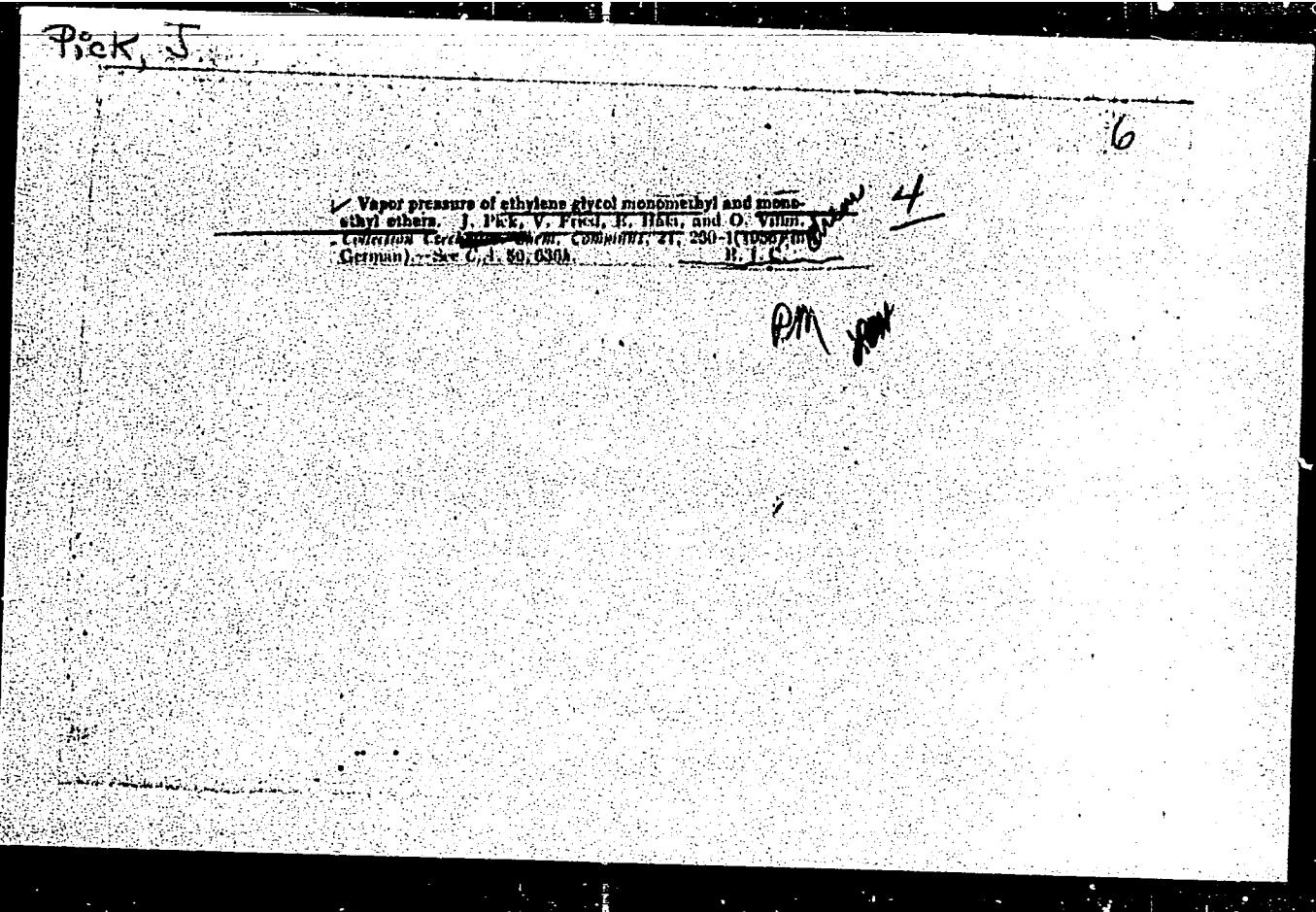
PACHNER, Petr. MUDr.; PICK, Jiri, (prom. lek.)

Effect of several individual aids in protection of hearing. Pracovni
lek. 9 no. 6:525-527 Dec 57.

1. Odbor hygieny prace KHES v Ostrave. P. P., KHES, Ostrava VII..
Zaluzanskeho.

(HEARING DISORDERS, prev. & control
individual ear plugs, resonance deadeners & hoods, evaluation
(Cz))

✓ Liquid-vapor equilibria. XIV. Activity coefficients and physical properties of pure components in binary liquid mixtures. Jiri Pick and Ondrej Vilim (Praha) *J. Pol. Chem. (Prague)*, *Chem. Listy* 50, 343-3 (1956). *cf.* J. A. Afzal, 1970. A method is suggested for calculating the van Laar const., A_1 and A_2 , of binary systems. The resulting equations are: $\ln \frac{P}{P_1} = \frac{A_1}{RT} \cdot \frac{N_1}{N_2} + K_1 \left(\frac{N_1}{N_2} - \frac{N_2}{N_1} \right)$ and $\ln \frac{P}{P_2} = \frac{A_2}{RT} \cdot \frac{N_2}{N_1} + K_2 \left(\frac{N_2}{N_1} - \frac{N_1}{N_2} \right)$. The N_1 , N_2 and N_3 values are defined by the relations: $N_1 = 70.57 \cdot [P_1]^{1/2} / 11.02^{1/2}$, where $[P_1]$ is the parachor of the i -th component; K and K' are constants characteristic for the given group of binary systems.



PICK, J.

PICK, J. and others. Equilibrium between liquids and vapors. VIII. On the equilibrium in the system of water-n-tallow-n-butyl acetate. In German. p. 39. vol. 21, no. 1, pt. 1. 1946. In: ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE. KLINIKUM DER UNIVERSITÄT MÜNSTER S.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

PICK, J.

PCK, J. and others. Vapor pressure of ethylene glycol monomethyl ether and the ethylene glycol monoacet yleter. In *Journal. C. R.* Vol. 21, No. 1, Feb. 1956. SLOVAKIA. CZECHOSLOVAKIA. POLAND. YUGOSLAVIA. FRANCE. BOSNIA AND HERZEGOVINA.

SOURCE: EAST EUROPEAN ACCESSIONS LIST (EEAL) VOL 6 NO 4 APRIL 1957

PICK, J.

CZECHOSLOVAKIA/ Physical Chemistry - Thermodynamics. B-8
Thermochemistry. Equilibrium. Physicochemical Analysis.
Phase Transitions.

Abs Jour : Referat Zhur - Kemiya, No 3, 1957, 7446

Author : Pick, J., Fried, V., Hala, E., and Vilim, O.

Title : Vapor Pressure of Ethylene Glycol Monomethyl and
Monoethyl Ethers

Orig Pub : Chem. listy, 1955, Vol 49, No 11, 1720-1721 (published in
Czech); St. chekosl. Khim. rabot, 1956, Vol 21, No 1,
260-261 (published in German with a Russian summary)

Abstract : The dynamic method (REINHOLD, 1955, 13590) was used in mea-
suring the vapor pressure (P) of ethylene glycol monome-
thyl (I) and monoethyl (II) ether between 63 and 134°.
The results are presented in a table. The constants for
the interpolation equation have been determined as fol-
lows: for I log P = 7.7085 - 1711.2/(t - 230); for II
log P = 7.8191 - 1801.9/(t - 230)

Card 1/1

- 81 -

PICK
PICK
Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Gases and Physical Chemistry

Liquid-vapor equilibria. IV. General equation relating the ratio of the activity coefficients to the composition of the liquid phase. Eduard Hala, Vojtech Fried, JIRI Pick, and Otakar Vilim. *J. Phys. Chem.*, 57, 1022-26 (1953). *Chem. Zentralbl.* 1954, 10, 1953. *Chem. Abstr.* 47, 174-80 (1953). *Chem. Abstr.* 48, 1021-22 (1954). Expressions for the ratio of activity coefficients in binary and ternary systems are derived from the Wohl's original empirical equation. By means of various simplifying assumptions these expressions are reduced to the equations of Scatchard-Hammett, Margules-Redlich-Kister, and the sym. equation. V. Limiting values of the relative volatilities in two-component systems at high pressures. Ibid. 123-4. A rapid method is given for computing the limiting values of relative volatilities at high pressures from isothermal total-pressure data. Generalized compressibility factors of gases and expansion factors of liquids can be used. The method reproduces the limiting volatilities of the system N_2-O_2 up to 25 atm. with a max. error of 8% (part VII). Calculation of liquid-vapor equilibria in two-component systems from isobaric p - x curves. Eduard Hala, JIRI Pick, Vojtech Fried, and Otakar Vilim. *Ibid.* 1417-19. A differential equation for the relative volatilities is derived from thermodynamics. This equation can be solved numerically or graphically under various assumptions if the temp. dependence of the vapor pressures of the pure components and the b.p.-to-mole-fraction curve of the binary mixt. are known. For the system CCl_4-Me_2CO calculated results agree with exptl. data (part VII). Calculation of liquid-vapor equilibria in two-component systems from isothermal p - x curves. Eduard Hala, Vojtech Fried, JIRI Pick, and Otakar Vilim. *Ibid.* 1423-7. An analogous expression for the relative volatilities is derived as in part VI, applicable to isothermal total pressure dependences on composition in the liquid phase. Generalized compressibility factor of gases and expansion factor of liquids can be used. Application of the method to the system $CHCl_3-EtOH$ gives very good results. VIII. A new flow equilibrium still for the determination of liquid-vapor equilibria. Otakar Vilim, Eduard Hala, Vojtech Fried, and JIRI Pick. *Ibid.* 1003-7. A new app. for the medium- and low-pressure range is described. One detn. takes 10-15 min. and requires 50-100 ml. of sample. Results obtained on $H_2O-AcOH$ and Me_2CO .

EDWARD HILT

cumene mixts. agree with the published data. With the
cumene-PhOH system thermodynamically consistent data
 $[\log(\gamma_1/\gamma_2) \text{ vs. mole fraction curve}]$ were obtained. A
modification of the Willmann manostat (C.A. 41: 4082) for
higher pressures with precision up to 0.01 mm. Hg is de-
scribed. IX. The system butanol-butyl methacrylate-
butyl α -hydroxyisobutyrate at low pressures. Jiri Pick,
Vojtech Fried, Edward Hilt, and Otakar Vilim. *Ibid.*
1760-7. In the pressure range of 20-60 mm. Hg, the b.p.s.
of the pure compds. and their binary mixts. were determined
and expressed by the Calingaert-Davis equation. From these
data the compns. of the vapor phase at 50 mm. Hg in the 8
binary systems were calculated. The compn. dependence of
the activity coeffs. in the ternary system was calculated by
means of the van Laar equation and expressed graphically.
The phys. constns. are: Bu methacrylate $a_1^0 = 1.4241$,
 $a_2^0 = 0.8051$; Bu α -hydroxyisobutyrate $a_3^0 = 1.4175$,
 $a_4^0 = 0.0506$, b.p. = 185.00°. R. Endre

2/2

Pick J.

7

Liquid-vapor equilibria. XIII. Phase equilibria
in the system water-sulfuric-butyl acetate. III. Pick,
Vojtěch Fried, Ladislav Hlava, and Ondřej Václavík.
Makrochem.-technol., Prague. Čes. Lisy 49, 1712-10
(1963); cf. Č.A. 47, 7900. — The liquid-liquid equil. in the
ternary system H_2O - $BuOH$ - $AcOBu$ was detd. by the syn-
thetic method; the temp. dependence of the equil. curve was
obtained by graphic correlation. The tie-lines were detd.
analytically. The vapor-liquid equil. in the homogeneous
region of the ternary system was calcd. by the 3-titius van
Laar equation; the ternary consts. were evaluated from 2
exptl. points detd. analytically. B. Brödös

Pick, Jiri

CZECH

Liquid-vapor equilibria. VIII. A new flow equilibrium
cell for the determination of liquid-vapor equilibria. Ondřej
Vilim, Eduard Hahn, Vojtěch Friedl, and Jiří Pick. Čas.
Lekcien Českoslov. Chem. Českoslov. 19, 1024 (1954) (in
German).—See C.A. 48, 4301d.

R. J. C.

PICK, JIRI

Liquid-vapor equilibria. XI. The system styrene-ethylbenzene-acetic acid at 60°. Oskar Vilim, Eduard Hán, Vojtěch Fried, and Jiří Pick. *Práce chem. fak. Československé univ., Chem. Chem. Fak.* 1954, 11, 121-126. — The equil. compns. in the 2 binary systems and in the ternary system were detd. by means of a flow app. The data were correlated by means of the four-suffix Margules equation and corrected for the assocn. of the HOAc in the vapor phase. A triangular equil. compn. plot is given. XII. Fractional steam distillation of the system *o*-nitroethylbenzene-*p*-nitroethylbenzene. Oskar Vilim, Eduard Hán, Vojtěch Fried, and Jiří Pick. *Ibid.* 1109-18. — The vapor pressures of the pure *o*-nitroethylbenzene (I) and *p*-nitroethylbenzene (II) were detd. from 50° to 150° and expressed by the Callendar-Davis equation (C.A. 20, 690); the consts. are: I: $A = 7.8958$; $B = 2380.0$; II: $A = 7.9323$; $B = 2417.0$. The vapor-liquid equil. compns. in the I-II system at 100 mm. Hg and in the I-II-H₂O system at 760 mm. Hg were detd. by means of a flow app. The I-II system behaves ideally. The measurement of a packed-column efficiency shows that the height equiv. to the theoretical plate is independent of the presence of an immobile liquid (H₂O). E. Hán.

MK 62

DICK, J.
CZECH

Packings for laboratory fractionating columns made from
glass textile. M. Matas, O. Vilim, J. Pohl and V. Fink
Vysoké učené zemědělské, Technická fakulta, Praha, Československo, 1959
(Zemědělský vědecký odborný časopis, Technická fakulta, Praha, 1959, číslo 2, strana 359-360). Three types of packings are described:
(a) By the use of a helical screw from glass textile tube, a
HETP of 1.8-2.5 cm. has been obtained. (b) In using
"heligrid" type of packing from steel wire spiral, better
contact with the walls and higher efficiency (HETP = 1.4
cm.) has been achieved by inserting suitably made disks
from glass textile. (c) The efficiency of current packing is
increased three-fold, if sept. by appropriately perforated
glass textile disks.

E. Brück

PICK, J.

~~CONFIDENTIAL~~
Immediate results of mass BCG vaccination. Prakt. lek., Praha
31 no.16:356-360 20 Aug 1951. (CIML 21:1)

1. Of the Lung Consultation Center of the Public Health Institute.

VESELY, F.; FRIED, V.; PICK, J.

Equilibrium liquid-liquid in the system n-butylacetate-water-phenol. Coll Cz Chem 28 no.6:1459-1467 Je '63.

1. Institut fur physikalische Chemie, Technische Hochschule
fur Chemie, Prag.

BOUKAL, J., MUDr.; PICK, J., MUDr.

Experiences with enlarging the perspective network of health institutions in the eastern Bohemian region. Cesk.zdrav. 11 no.10:427-442 0 '63.

1. Ministerstvo zdravstveni (for Boukal). 2. Odbor zdravotnic-tvi Vychodoceskeho KNV (for Pick).

PICK, J.

HALA, E.; PRIKD, V.; PICK, J.; VILIM, O.

Equilibrium in the system liquid -- vapor. Part.4. General equation for
the dependence between activity coefficients and the composition of the
liquid phase. Sbor.Chekh.khim.rab. 19 no.1:16-23 P 154. (MLRA 7:6)

1. Kafedra fizicheskoy khimii, Prazhskogo Khimicheskogo Instituta.
(Phase rule and equilibria) (Activity coefficients)

6/11/61 (CII)

✓ Liquid-vapor equilibria. V. Limiting values of the relative molalities in two-component systems at high pressures. Eduard Hala, Vojtech Fried, Jiri Pick, and Otakar Vilim. *Prace Mat. Fiz. Chem., Univ. Karlova, Collection Czechoslovak (Institute of Phys. Chem., Univ. Charles), Prague, Cernava*, VI, Czechoslovakia, 1967, 417-427. See also *C.A.* 66, 11311. VI. Calculation of liquid-vapor equilibria in two-component systems from Raoult's $p-x$ curves. Eduard Hala, Jiri Pick, Vojtech Fried, and Otakar Vilim. *Ibid.* 417-27. VII. Calculation of liquid-vapor equilibria in two-component systems from isothermal $p-x$ curves. Eduard Hala, Vojtech Fried, Jiri Pick, and Otakar Vilim. *Ibid.* 417-27. See *C.A.* 68, 4301ab.

E.J.C.

Pick

Vapor pressures of butyl- α -hydroxyisobutyrate and of
dibutyl ester. V. Růžek, J. Pick, M. Hala, and O. Vlček
(Zemědělské výzkumy, Praha, Československá republika). Chem. Listy 48,
772-774 (1954). From differential pressure measurements the temp.
dependence of vapor pressure of Bu- α -hydroxyisobutyrate
(I) and of (II)_n) was computed in the form: $\log P = A -$
 $B/(T - 13)$, where for I: $A = 7.0470$, $B = 19.0111$ and
for BuO: $A = 7.1832$, $B = 17.115$, both in the range
70-780 mm. Hg. The phys. constants found were: I b.p.
185.0°, d₄²⁰ 0.85055, n_D²⁰ 1.3115; BuO b.p. 140°, d₄²⁰
0.76840; n_D²⁰ 1.3900.

Evaluation of pigments by hiding power. Jan Pick
Chem. Pramyil. 10, 332-7 (1953). To det. hiding power,
prep. a pigment paste (I) of 4 g. (= 1 cc.) of pigment and,
1.3 g. blown castor oil, and a lacquer (II), of 20 g. low-
viscosity nitrocellulose, 10 g. ethanol, 25 g. xylene, 30 g.
glycol ethyl ether, 5 g. dibutyl phthalate, 5 g. cyclohexanone
resin AW 2 dissolved in 5 g. xylene. Mix (I + 1.2) g.
of I and 12.0 g. of II, apply to a glass plate, allow to dry,
strip, and det. the hiding power on a contrast scale. A double
film does not represent twice the thickness of a single film.
Formulas are given for the computation of percentage by
weight and vol. of dry substance in paint; pigment in
paint, and pigment in dry substance from known consts.
of the constituents and d. of the pigment tested. The
final interpretation of the results is the no. of grams of
pigment in question having the same hiding power as 1 g.
of standard sample. L. A. Helwich

LABOHY, Ladislav, MUDr; PICK, Jaroslav, MUDr

Acute allergic myocarditis after vaccination against scarlet fever.
Cas.lek.cesk. 91 no.12:363-368 21 Mar 52.

1. Z interniho oddel. statni oblastni nemocnice v Havlickove Brode. Prednosta: MUDr L.Labohy, Z interniho ambulatoria OMP v Chotebori. Prednosta: MUDr J. Pick.

(MYOCARDITIS,

allergic, after vacc. against scarlet fever)

(SCARLET FEVER, prevention and control,

vacc., causing allergic myocarditis)

(VACCINES AND VACCINATI.C.S,

scarlet fever, causing allergic myocarditic)

(ALLERGY,

myocarditis after vacc. against scarlet fever)

Pick, J. J.

8

Liquid-vapor equilibria. I. The system butane-butyl
ether-buty1 methacrylate at low pressures. Vojtěch Fried,
Jiří Pick, Bohumír Bláha, and Otašar Vilim (Výroba plášťov
chem., Plzeň, Czech.). *Chem. Listy* 48, 101-7 (1954).
cf. I.A. 41, 1014. The isothermal equil. compns. of the
vapor and liquid phases at 0° in the 3 binary systems were
computed from the dependences of vapor pressures on
temp. and concn. The relative volatilities in the ternary
system were calcd. by the modified two-suffix Scatchard
equation [C.A. 30, 388]. B. Brücke

PICK, JIRI

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
General and Physical Chemistry

Liquid-vapor equilibrium. III. Thermodynamics of
nonelectrolyte solutions. Eduard Hala, Otakar Vilim,
Jiri Pick, and Vaclav Fried (Vysoka škola chem., Prague,
Czech.). "Chem. Listy" 47, 1101-12 (1953); cf. *ibid.*
641.—A review with math. considerations and 36 references.
M. Hudlický

8
S
10/18/57

PICK, L.

PICK, L.

"Hungary's New 'Left' Activity - "Inevitable" Increase of Soviet Influence and
Accommodation Within the International", I. S. (SITEL) FILE, Vol. 1,
No. 1, June 1951, Budapest, Hungary)

SC: Monthly List of East European Accesories (EMAL), L, Vol. 1,
No. 1, Mar. 1951, incl.

113a, 1.; 113b, 2.

Contribution to determining the form of the grid. p. 15.
(UNOFICIÁLNÍ SBORNÍK, No. 20/35, 1955 (published 1957), Praha, Czechoslovakia)

cc: Monthly List of East European Accessions (.BAU) Lj, Vol. 6, No. 1., Dec 1957. Incl.

PICK, M.

Transformation of the relative deflections of verticals from one system to another.
In German.

P. 69, (Geofysikalni Sbornik) Ceased publication. No. 36/60, 1956 (Published 1957)
Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

PICK, M.

Conformal transformation of one ellipsoid into another ellipsoid. In Report.

p. 46 (Studia Geophysica Et Geodactica) Vol. 1 no 1 1967. Bratislava, Czechoslovakia.

M: Monthly index of East European Accessions (CEAS) 10, Vol. 1 no 1 Jan 1981

S/035/62/000/006/056/064
A001/A101

AUTHOR: Pick, Miloš.

TITLE: Generalized Stokes function and derivative functions

PERIODICAL: Referativnyj zhurnal, Astronomiya i Geodesiya, no. 6, 1961, 29, abstract 6G183 ("Geofys. sb.", 1960 (1961), no. 126 - 140, 1 - 44, German; Czech and Russian summaries)

TEXT: Tables of auxiliary functions are compiled for determining the shape of the real Earth on the basis of the first method of numerical solution of Molodenskiy's integral equation ("Trudy TsNIIGAiK", 1949, no. 68); these tables are more detailed and precise and embrace a larger range than Yeremeyev's tables (RZhAstr, 1958, no. 7, 4787). It was assumed for angular distances $\Psi > 10'$: ✓

$$S(\zeta, \varphi) = S(\Psi) + S_1(h/R) + S_n,$$

$$F(\zeta, \varphi) = 1/2 \sin \varphi S(\varphi, \varphi) = F(\varphi) + F_1(h/R) + F_n,$$

$$T(\varphi, \varphi) = T(\varphi) + T_1(h/R) + T_n$$

for $\varphi \geq 4^\circ$

$$\xi(\varphi, \varphi) = \xi(\varphi) + \xi_1(h/R) + \xi_n,$$

Card 1/2

Generalized Stokes function and derivative functions
for $\zeta \leq 10^0$

S/035/62/000/006/005/004
A001/A101

$$\zeta(\cdot, \cdot) = Q(\cdot) + Q_1(h/R) + Q_n,$$

where $S(\cdot)$ is Stokes's function, $F(\cdot) = 1/2 \sin \cdot S(\cdot)$, $\zeta(\cdot) = 1/\cdot$

$$S(\cdot) \sin \cdot d\cdot, Q(\cdot) = - \frac{dS(\cdot)}{2\pi d} \sin \cdot, T(\cdot) = \int_m^n Q(\cdot) d\cdot, h \text{ is the height}$$

of a fixed point over the reference sphere with radius R , $\cdot = R + h$. Tables are compiled for the function with indices 1 and n. The values of the first terms for the presented formulae should be taken from Lambert and Darling's tables (Spec. publ. of the U.S. Coast and Geodetic Survey, Washington, 1936, no. 119) or Collins's ones (Bull. Geod., 1946, v. 3, 279 - 300). For \cdot -values lesser than the indicated values of the corresponding functions, specially derived expressions are recommended for calculations for each individual case; tables are compiled for individual terms of these expressions and for $\zeta(\cdot, \cdot)$. Expressions $S(\cdot, \cdot) = S(\cdot) - S(\cdot)$ and $\zeta T(\cdot, \cdot) = T(\cdot, \cdot) - T(\cdot)$ in the range $\cdot \in [10^2, 10^3]$ and $Q(\cdot, \cdot) = Q(\cdot, \cdot) - Q(\cdot)$ in the range $\cdot \in [10^2, 10^4]$ are represented by series in powers of h/R up to terms containing $(h/R)^8$, $(h/R)^4$ and $(h/R)^2$ inclusive.

M. Yurkina

[Abstracter's note: Complete translation]

Card 2/2

S/035/62/000/006/057/064
A001/A101

AUTHOR: Pick, Milos, Picha, Jan, Vyskocil, Vincenc
TITLE: Topographic gravity corrections for the territory of Czechoslovakia
PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 6, 1961, p. 120-124, 12 p.
abstract GG18; ("Geophys. st.", 1966 (1961), no. 12) - 146, 11 p.
Czech; Russian and English summaries)

TEXT: A team of the gravimetric department of the Geophysical Institute of the Czechoslovakian Academy of Sciences has compiled, as a result of 5 years of work, a 1:200,000 map for the entire territory of the republic for calculating gravity corrections. Corrections are introduced, with an accuracy of 4.0 mgal, for the relief within the Hayford zone C for density 2.67. Separate sheets of the map are presented for mountainous, hilly and plain regions. Isolines of equal correction values are drawn through 0.2 mgal. The Earth's curvature is taken into account. The values obtained from the map should be added with a correction determined from the appended nomogram for the height of the points and a correction, calculated for every point, for the effect of relief masses within a radius

Card 1/4

3/035/62/001/16/137
A001/A101

Topographic gravity corrections...

of 5.24 km. The nomogram yields a part of correction for relief in regions. This is statistically determined, varying regularly with the height. The size of this region is chosen so that corrections indicated on the map should not depend on the point heights. A sheet of the 1:200,000 map is taken for the region. Maximum values on the maps are 5 mgals. Topographic and hypsometric maps at a scale of 1:100,000 are used for calculations. Corrections are calculated starting from scale 1:100,000 and for special points of the relief indicated on the maps. About 40 points were used for each sheet of the 1:100,000 map; in mountains - sometimes 200 points or more. Calculated values are presented on the maps. The effect of zones M - O₂ is determined for four points on the 1:100,000 sheet, and that of zones M - O₁ and O₂ - O₃ for one point. For each quarter of the sheet indicated a graph of dependence of zones M - O₂ on the point height is plotted, and this effect is determined for all points of the section. Graphs of adjacent sections determine the effect of zones M - O₂ with a difference of, in most cases, ~0.01 mgal. In higher and mountainous regions of Slovakia the sections are reduced. If any dependence of coefficients of quantities presented on the map on relief heights was noticed, the heights of locality were taken into account while drawing the isolines. For the control, corrections for relief were calculated for 207 points uniformly distributed.

Card 2/4

S/035/62/000/006/052/1A4
A001/A101

Topographic gravity corrections...

Distributed over the Czechoslovakian territory and heights. The systematic error of determining the influence of zones M - O₂ is estimated by the authors to be 0.01 mgal. They suppose that errors of influence of zones I - L do not depend on the mean height. The mean error of this influence is estimated to be ±0.04 mgal. A table is presented for Bullard's term: a difference of effects on gravity between the spherical layer within the external radius of Hayford 0 zone and infinite radius of the same thickness. For zones H - O₂ a correction table is given for influence of spherical layer. A table is also given of effects of zone A and sectors I - H on zones and subzones B - H on corrections for relief (up to 0.001 mgal). It is shown in tables, which accuracy is required for mean heights in these zones and subzones for calculating their effect with an accuracy of 0.1 and 0.2 mgal at mean elevations close to zero and 100 m. It is shown also, what an accuracy is required for determining mean heights in sections of zones I - O₂ for calculating their effect with an accuracy of 0.1, 0.2, 0.3 and 0.4 mgal at mean elevations of locality 500, 1,000, 1,500 and 2,000 m. A map of topographic corrections for zones 18 - 1 of Hayford for Czechoslovakia is presented. A map of topographic isostatic reductions of these zones has been prepared. For 14 points, uniformly distributed over the land territory, the table gives effects of topographic

Card 3/4

Topographic gravity corrections...

3/025/62/000/00000000
A001/A101

masses in zones 18 - 14, 13 - 10, 9 - 8 and 7 - 1. The effect of zones changes most considerably (up to 3 mgal) and rapidly. Tables are given for normal gravity values according to Gel'mert formula 1901 - 1909 in the range from $47^{\circ}30'$ to $51^{\circ}50'$ in intervals of $10'$ in latitude; the tables contain also reductions in free air for heights from 0 to 1,000 m in intervals of 1 m of height with an accuracy of ± 0.01 mgal and from 1,000 to 2,700 m in intervals of 10 m with an accuracy of ± 0.1 mgal, additional corrections to these reductions for change in normal vertical gradient in latitude and height, Bouguer reductions with Bullard's term (with the same height intervals and accuracy as in the table of reductions for free air) for conversion from the assumed value of density to its other value. There are 16 references.

M. Yurkina

[Abstracter's note: Complete translation]

Card 4/4

100% M-641 (P&P) 100%

Technique of determining the extent of the effect of the "mushroom" method. ANALYSTS: D. J. COOPER, "PAC."

1. Description of technique: ANALYSTS EXAMINE TEST DATA.

S/169/62/000/007/052/149
D228/D307

AUTHOR: Pick, Miloš

TITLE: Calculating the topographic correction for the gravitational effect of the nearest zone by means of models

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 27-28,
abstract 7A180 (Geofys. sb., no. 126-145, 1960 (1/61),
159-174)

TEXT: The author examines several versions of models, allowing the topographic correction to be calculated for the inner zone's gravitational effect at a distance of 5.24 km from the gravimetric point. Model no. 1 is constructed on the assumption that the inner zone can be replaced by prismatic bodies, bounded above by a plane passing through the gravimetric point. Model no. 2 differs from the first in that its upper side is bounded by a horizontal plane. Model no. 3 is constructed on the supposition that the inner area can be divided into a finite number of sectors in which the actual ground surface is represented by a plane passing through the gra-

Card 1/2

Calculating the topographic ...

S/169/62/000/007/052, 149
D228/D307

gravimetric point. The construction of model no. 4 is based on the surmise that the gravimetric point's immediate vicinity has the shape of a paraboloid of rotation with a vertically set axis. Formulas and tables are given for the gravitational effect of each model. All numerical calculations were made for the density $\sigma = 2.67 \text{ g/cm}^3$. [Abstracter's note: Complete translation.] ✓

Card 2/2

L 34681-66 EWT(1) GW
ACC NM: AP6025855

SOURCE CODE: CZ/0023/65/009/003/0219/0224

AUTHOR: Pick, Milos

ORG: Geophysical Institute, CSAV, Prague

TITLE: Determination of the shape of the earth by using analytical continuation of
a function 12

SOURCE: Studia geophysica et geodetica, v. 9, no. 3, 1965, 219-224

TOPIC TAGS: function analysis, earth gravity, gravitation field, geodesy

ABSTRACT: With the commonly used methods of calculating the characteristics of the external gravitational field of the Earth it is necessary to calculate summations in which the accuracy of the included value of Δg can be controlled to the required degree by a suitable distribution of the gravity points and choice of methods of interpolation. Still, the deviations may be higher than the accuracy of the calculations and will depend to a considerable degree on the choice of method of ascribing the values of Δg and Δg^x . When the number of gravity points is increased the results need not in general converge. Orig. art. has: 2 figures and 14 formulas. [Orig. art. in Eng.] [JPRS: 32,859]

SUB CODE: 08 / SUBM DATE: 06Mar65 / SOV REF: 002 / OTH REF: 004

Cord 1/1 ULR

L 3733-66

ACCESSION NR: AP5027644

CZ/0023/65/009/002/0156/0159

AUTHOR: Pick, Milos (Engineer, Doctor of sciences)

TITLE: Deflections of the vertical in the High Tatras [This paper was presented at the Symposium on the Determination of the Figure of the Earth, October 6--10, 1964, Prague]

SOURCE: Studia geophysica et geodaetica, v. 9, no. 2, 1965, 156-159

TOPIC TAGS: gravimetry, geodesy, trigonometry

Abstract [Author's Russian summary, modified]: On the basis of gravimetric data the deflections of the vertical have been calculated for five points in the High Tatras by Nolodenskiy's method. Experience obtained in determining corrections for relief in Czechoslovakia was utilized in the calculations. The gravimetric system of deflections of the vertical was compared with the system of astronomical-geodetic and with the system of trigonometric deflections of the vertical. The agreement with the astronomical-geodetic was generally good. The deviations of the vertical calculated on the basis of trigonometric measurements contain systematic errors which are a function of height above sea level. Orig. art. has 2 figures and 2 tables.

Card 1/2

L 3733-66

ACCESSION NR: AP5027644

ASSOCIATION: Geophysical Institute, Czechosol. Acad. Sci., Prague

SUBMITTED: 06Oct64

ENCL: 00

44.55
SUB CODE: ES, MA

NO REF Sov: 001

OTHER: 003

JPRS

3

PICK, Milos

Influence of the nearest vicinity of a gravimetric point on the extent of topographic deformation. Studia geophysica 7 no.2 145-155 '63.

1. Geophysikalisches Institut, Tschechoslowakische Akademie der Wissenschaften, Praha 4 - Sporilov, Boční II.

PICK, Milos

On a new method for preparing charts of topographical corrections.
Geofiz kozl 9 no.1/2:41-42 '60.

Internal Medicine

CZECHOSLOVAKIA

JEZEK, V.; PICK, P.; 2nd Internal Clinic, Faculty of General Medicine, Charles University (II. Interni Klinika Fakulty Vseobecneho Lekarstvi KU), Prague, Head (Prednosta) Prof Dr F. HERLES.

"Serum Transaminase Levels in Cor Pulmonale."

Prague, Casopis Lekaru Ceskych, Vol 105, No 42, 21 Oct 66, pp 1155 - 1156

Abstract: The increased transaminase level is not specific for a definite disease. 40 patients suffering from emphysema with chronic bronchitis were examined. Increased levels of GOT and GPT were found only in decompensated patients, and less frequently than is indicated in literature. The normalization of the values takes usually 3-4 days. The finding of increased GOT and GPT levels may be used for a differentiation of a simultaneous cardiac infarct. The actual causes of the increased values of GOT and GPT could not be determined unequivocally. 1 Table, 3 Western, 3 Czech references.

1/1

Various changes in the electrolyte metabolism of patients with chronic cor pulmonale and respiratory insufficiency. Sborn. lek. 67 no.5:153-159 My'65.

1. Kardiologicka laborator a II. inerni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. F. Herles, DrSc.).

VODACEK, C., and, SCHAFFNER, R., et al.

Comparison of different methods for the detection of explosives
suitability for heavy-duty military applications. Report No. 12, Part 2, Rev. N, 1944.

1. Introduction. (Part 1 of the file "Report on Explosives".)

The deformation of molecules in an electric field. A
Dokl. Akad. Nauk SSSR 200, 1707 (1977). The
author's theory of change in dielec. const. under the in-
fluence of an elec. field is generalized on the assumption
that, owing to deformation of the mol., there arises an
induced momentum proportional to the square of in-
tensity of the elec. field. The theory accounts well for
the abnormally large changes in dielec. const. of di-
valent of Cu, Hg, Ni, or CdHg under the influence of the elec.
field
B. Jorjew

ABSTRACTS OF FOREIGN LITERATURE CLASSIFICATION

P. C. KARAKA A.

POLAND/Magnetism - Experimental Methods of Magnetism

Abs Jour . Ref Zhur - Fizika, No 2, 1958, No 3597

F-2

Author : Pickara A., Malecki, J

Inst : Adam Mickiewicz University, Poznan, Poland.

Title : On a Method of Producing Strong Magnetic Fields of Short Duration.

Orig Pub : Acta phys. polon., 1958, 15, No 6, 381-388

Abstract . The work contains a description of a method that makes it possible to obtain strong magnetic field of duration on the order of 50 microseconds. The energy source is a bank of capacitors of 2 microfarad capacity and a working voltage of 50 kw. The problem of construction of a coil of high mechanical strength is considered. A method is given for measuring the intensity of the pulsed magnetic field using a probe coil and a cathode ray oscilloscope. The authors obtained fields up to 350,000 oersted in a volume of approximately 1 cubic cm.

Card : 1/1

Dielectric polarization of benzene, carbon disulfide, hexane and nitrobenzene Arkadijus Pirkulis, Bell Telephone Laboratories, Murray Hill 10-3334, New York 18. The temp. dependence of these liquids by the resonance method in condensers has been described before (C. A. 23, 2359). The abs. value of $\delta_0/\delta t$ for C_6H_6 increases in the supercooled region. $\delta_0/\delta t$ increases still more. $\delta_0/\delta t$ for C_6S_2 behaves similarly but to a lesser degree. For C_6H_{14} there is a slight increase with temp. $\delta_0/\delta t$ for $PhNO_2$ was examined from $+50^\circ$ to -4° . There was no anomaly at 0.06° (C. A. 23, 1710, 4757, 3894) or at the supposed transition point 5.6° . In the solid the dielec. const. is smaller.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012408

PICKAT A.R.

PROCESSES AND PREDICTION MODELS

(2)

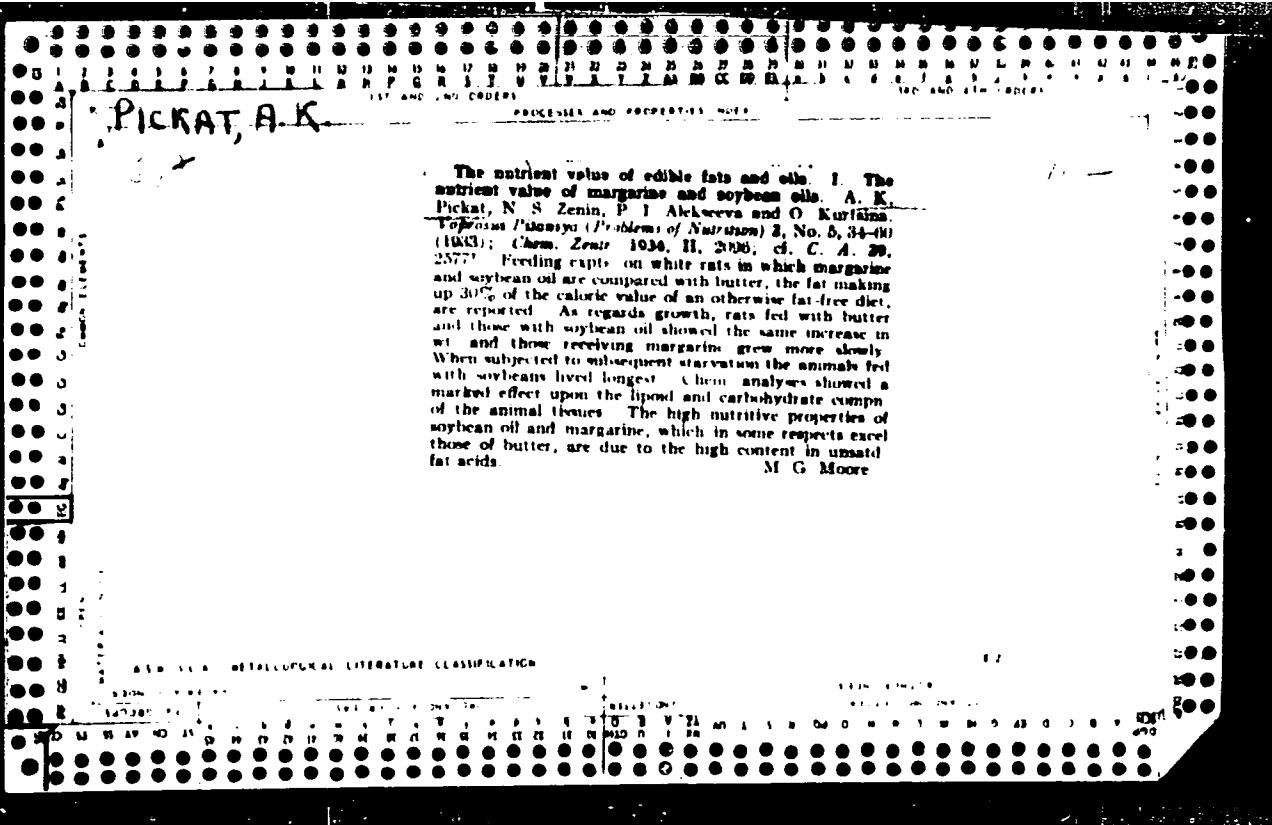
112

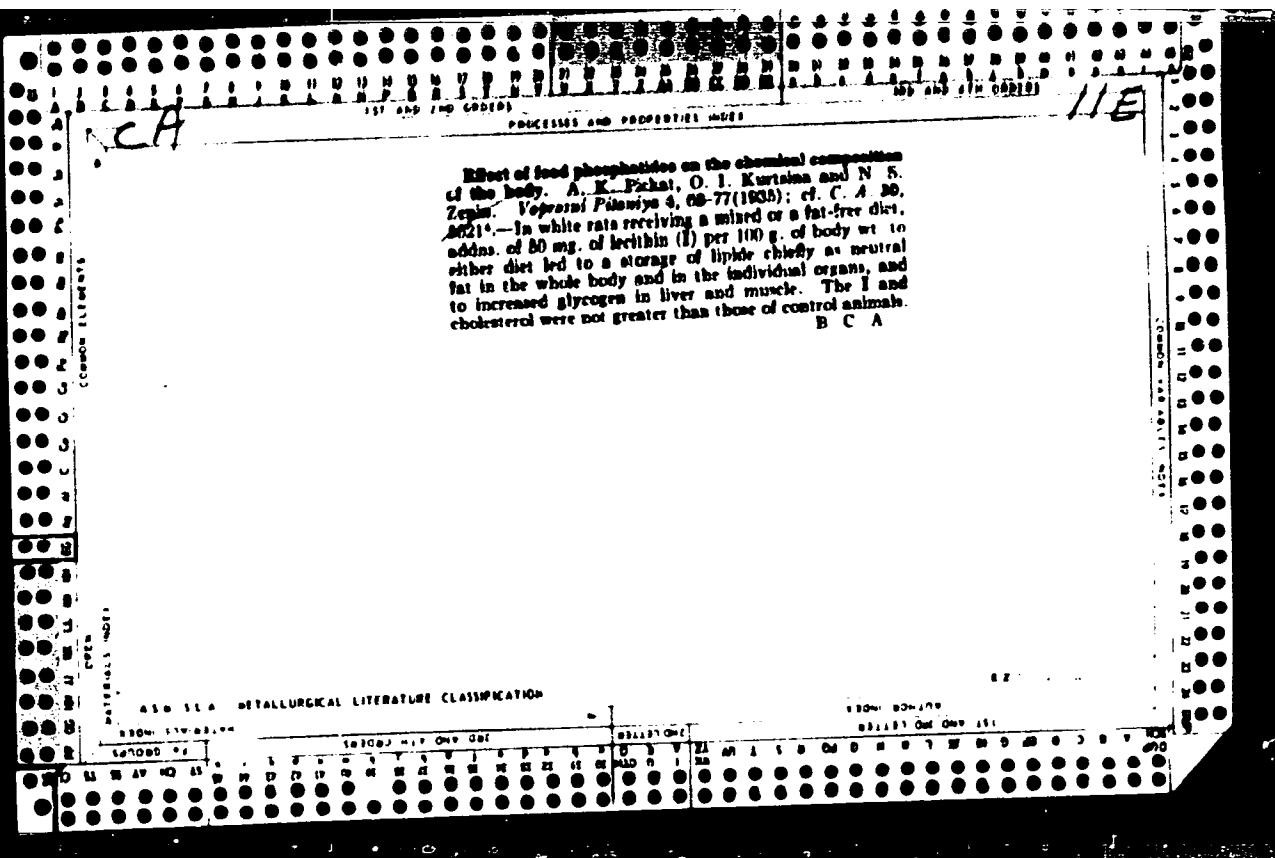
Nutritive value of food fats and oils II. Beef and sunflower oil. A. K. Pickat, N. S. Zealin, O. Karavane and P. I. Aleksanova. *Problems of Nutrition* (U. S. S. R.) 3, No. 1, 107 (1954).—Compared with butter, sunflower oil (I) has high, and very low, nutritive values when fed to young rats as 30% of the caloric value of the ration. The high cal. value of I is attributed to its content of highly unsatd. fat acids. When groups of rats which have received the 3 rations are subsequently starved, the I group survives longest. B. C. A.

B.C.A.

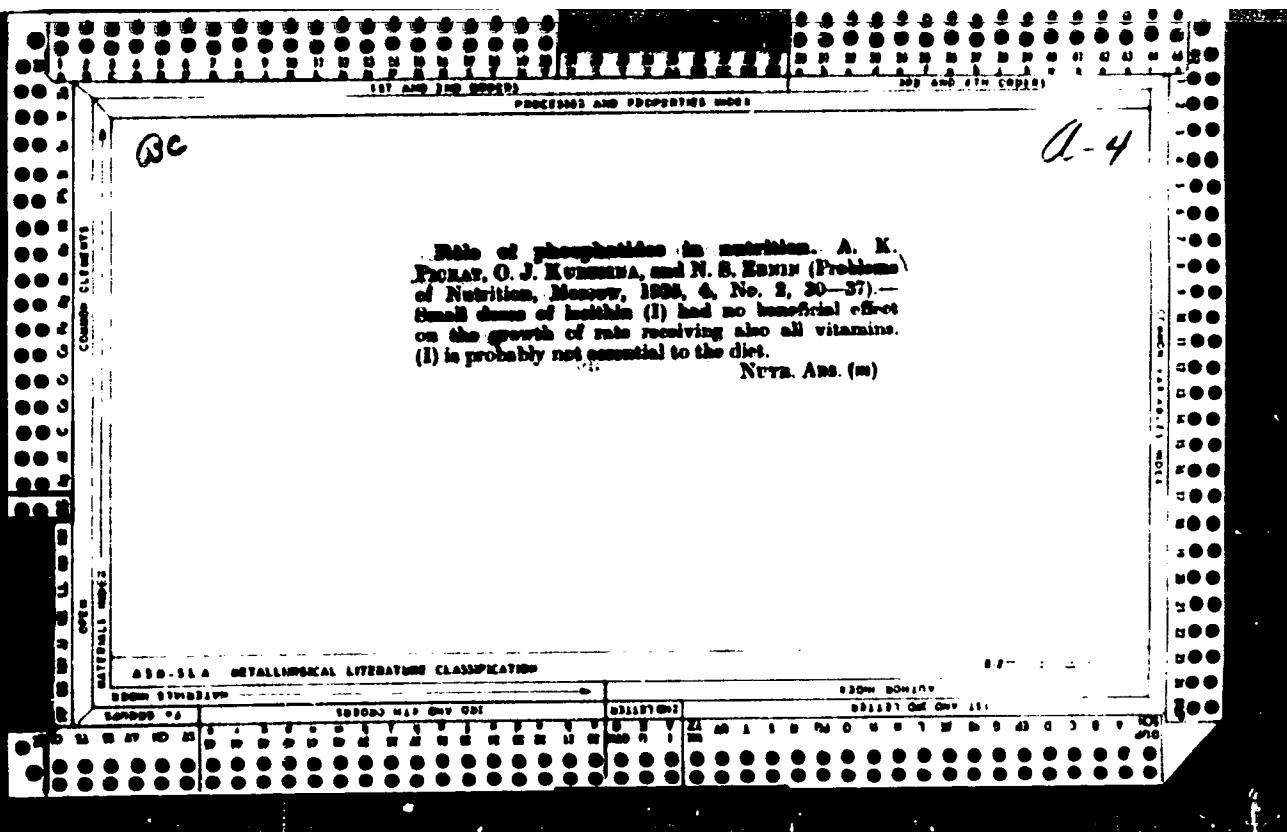
ABSTRACTS OF METALLURGICAL LITERATURE CLASSIFICATION

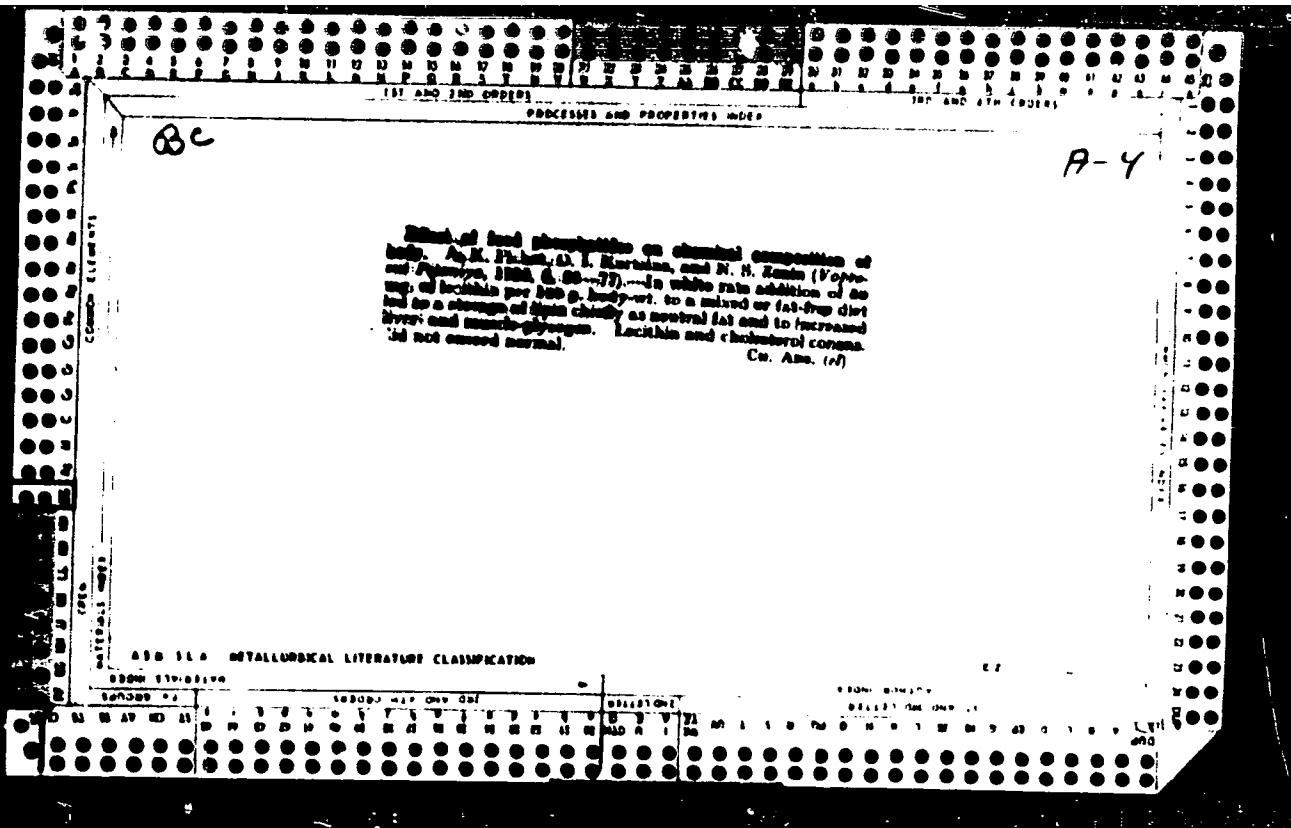
APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012408

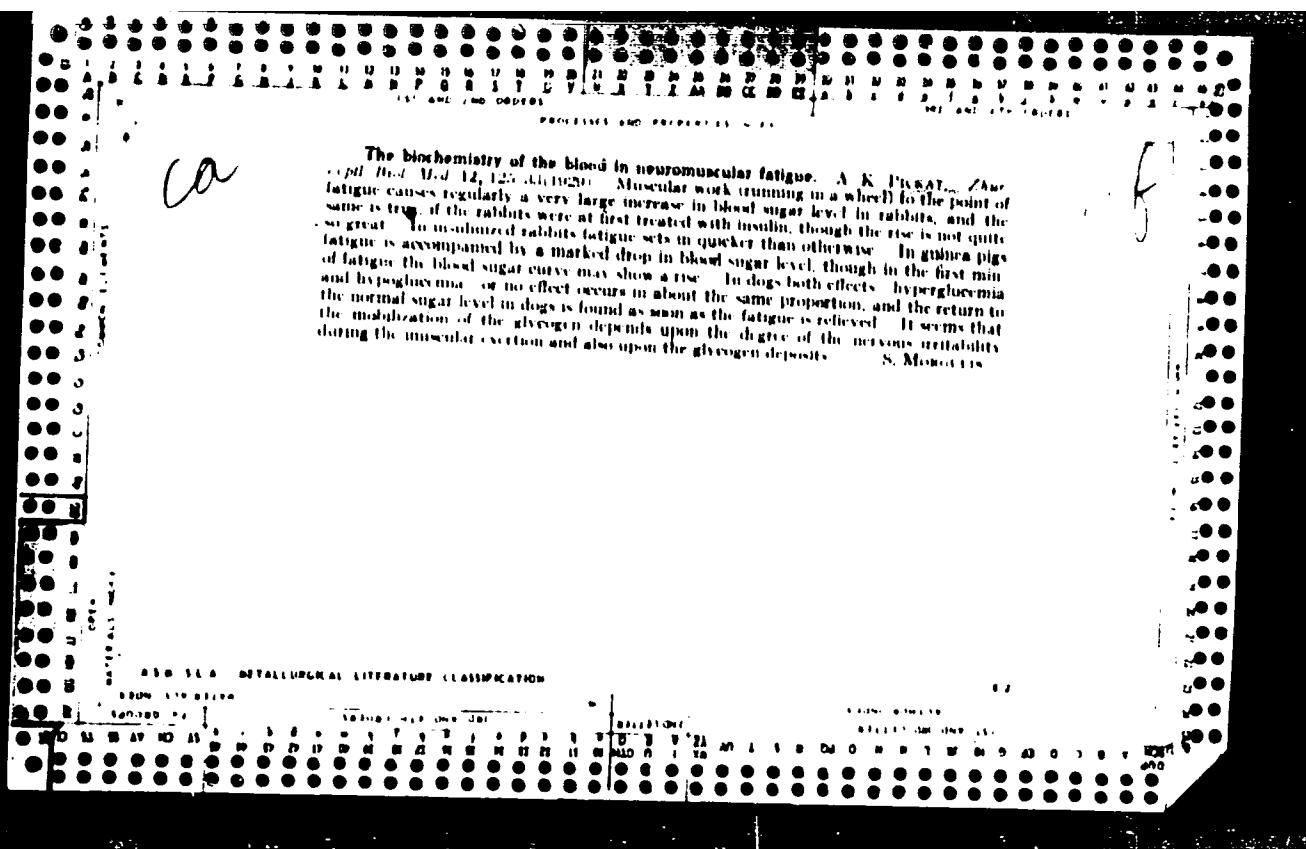


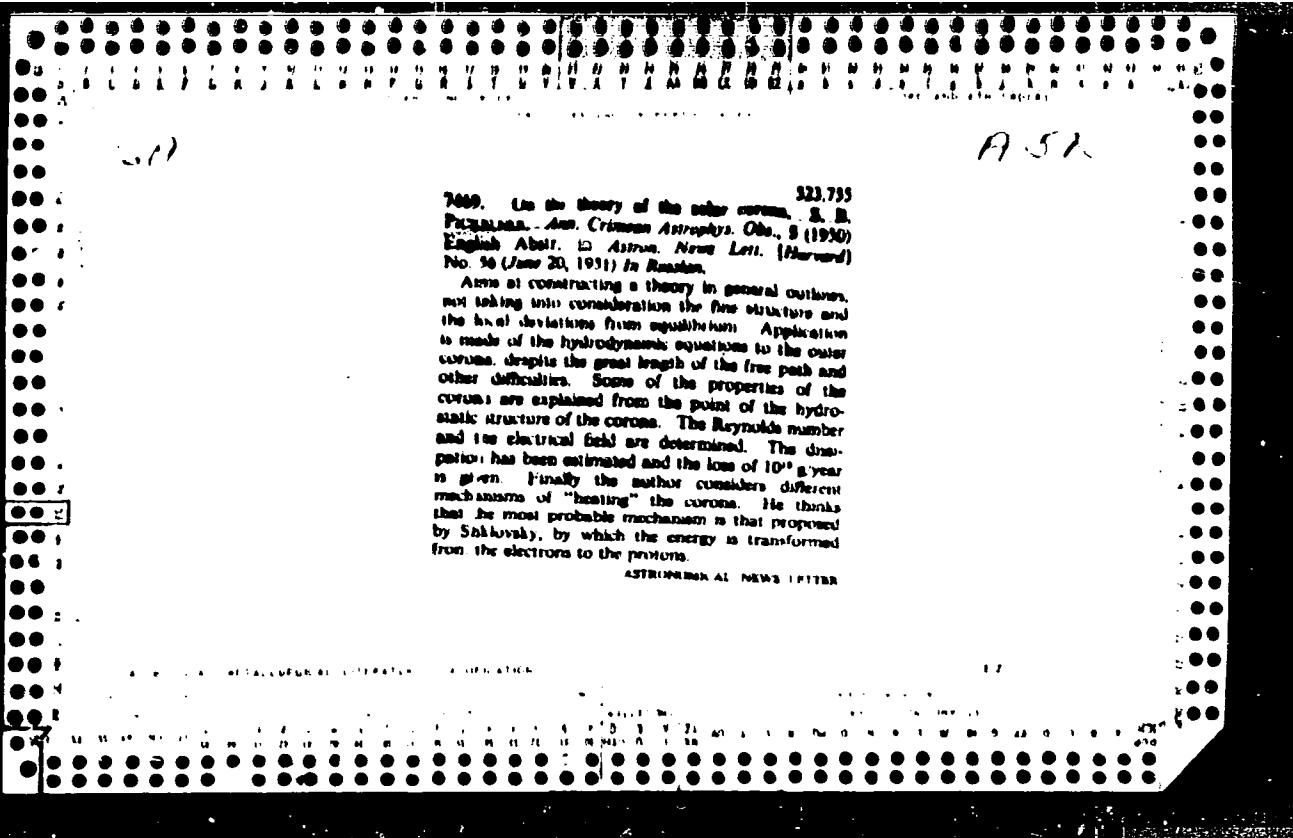


Role of phosphatides in nutrition. A. K. Pukat,
O. Kurtsina and N. S. Zenin. *Voprosy Psichologii*, No. 2,
1971 (1973). Small doses of lecithin had no beneficial
effect on the growth of rats receiving also all vitamins.
It is probably not essential to the diet. B. C. A.









L 15173-66

ACC NR: AT6033352

SOURCE CODE: THU/2505/65/026/01-/0103/0104

AUTHOR: Pickenhain, L.; Klingberg, F.

ORG: Department of Clinical Neurophysiology, Neuropsychiatric Clinic, Karl Marx University, Leipzig

TITLE: Changes in EEG, cortical evoked potentials and startle reactions in rats during the development of a conditioned avoidance reflex [Paper presented at the symposium of the Hungarian Physiological Society held in Budapest from 2-3 July 1963]

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 26, no. 1-2, 1965, 103-104

TOPIC TAGS: EEG, rat, conditioned reflex, neurophysiology

ABSTRACT: The experimental method used and the results obtained are described briefly. It is concluded that in all situations which have the character of novelty (essential changes of the situation or motor acts that have not yet become automatized), the evoked potentials, especially their positive components, and the startle reactions are decreased. When the situation has lost its novelty and the acting stimulus has gained a signal meaning (i.e. in the initial phase of the conditioned reflex), or the signal meaning has already changed (i.e. during the extinction), the evoked potentials and the startle reaction increase. [Orig. art. in Eng.] [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 1/1 fv

0920 1374

HUNGARY/German Democratic Republic

PICKENHAIN, Lothar, and KLINGBERG, Fritz, Department of Clinical Neurophysiology at Karl Marx University (Karl-Marx-Universität, Abteilung für Klinische Neurophysiologie) in Leipzig.

"Characterization of Differential Stages of Growth in the Rat with the Aid of Electrophysiological and Behavioral Data"

Budapest, Acta Physiologica Academiae Scientiarum Hungaricæ, Vol 29, No 3-4, 8 Jun 1966, pp 253-259.

Abstract: [German article] Systematic electrophysiological and behavioral studies were conducted on over 100 unrestrained rats equipped with implanted epidural and subcortical electrodes with motorially predicated defense and nutritional reflexes. The various growth stages could be related to data on electrocardiogram desynchronization degree, amplitude of the evoked potentials, number of photic afterdischarges in the visual cortex, presence and frequency of the reflex in the dorsal hippocampus, respiration rate, and number of startle reflexes. Four principal stages were characterized. 13 references, including 2 Hungarian, 3 German, and 8 Western. (Manuscript received 3 Aug 1965).

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HUNGARY/German Democratic Republic

~~KLINGBERG, Fritz, Department of Clinical Neurophysiology at Karl Marx University (Karl-Marx-Universität, Abteilung für Klinische Neurophysiologie) in Leipzig, German Democratic Republic.~~

"Relations Between the Motorial Reaction Potential in the Rat and the Startle Reflex"

Budapest, Acta Physiologica Academiae Scientiarum Hungaricæ, Vol 29, No 3-4, 8 Jun 1966, pp 261-266.

Abstract: [German article] Unrestrained rats with implanted electrodes were used in the investigations aimed to establish the most favorable state of the animals for the startle reflex. The technique used was that described by SZABÓ, I., KALMÁR, I., and KARMOS, G. (Kísérleti Orvostudomány, 1962, No 14, pp 600-603.) It was established that the most favorable conditions prevail if the animal is in a state of relaxed attention. The data obtained were presented and discussed in some detail. 15 references, including 5 Hungarian, 2 German, and 8 Western. (Manuscript received 3 Aug 1965).

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On the role of the hippocampus in the elaboration of conditioned escape reflexes in the rat. Acta physiol. acad. sci. Hung. 27 no.4:359-374 '65.

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Changes in ECG, cortical evoked potentials and startle reactions
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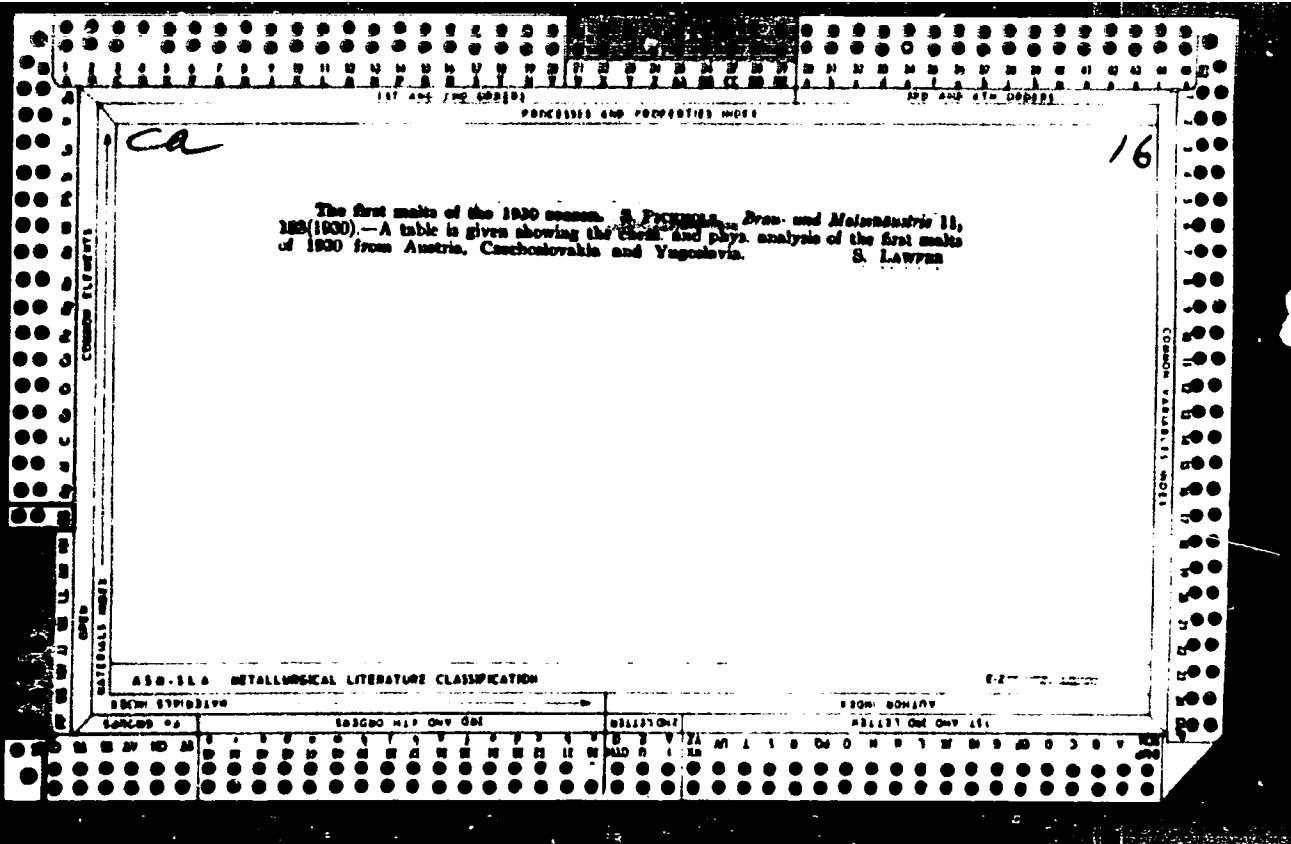
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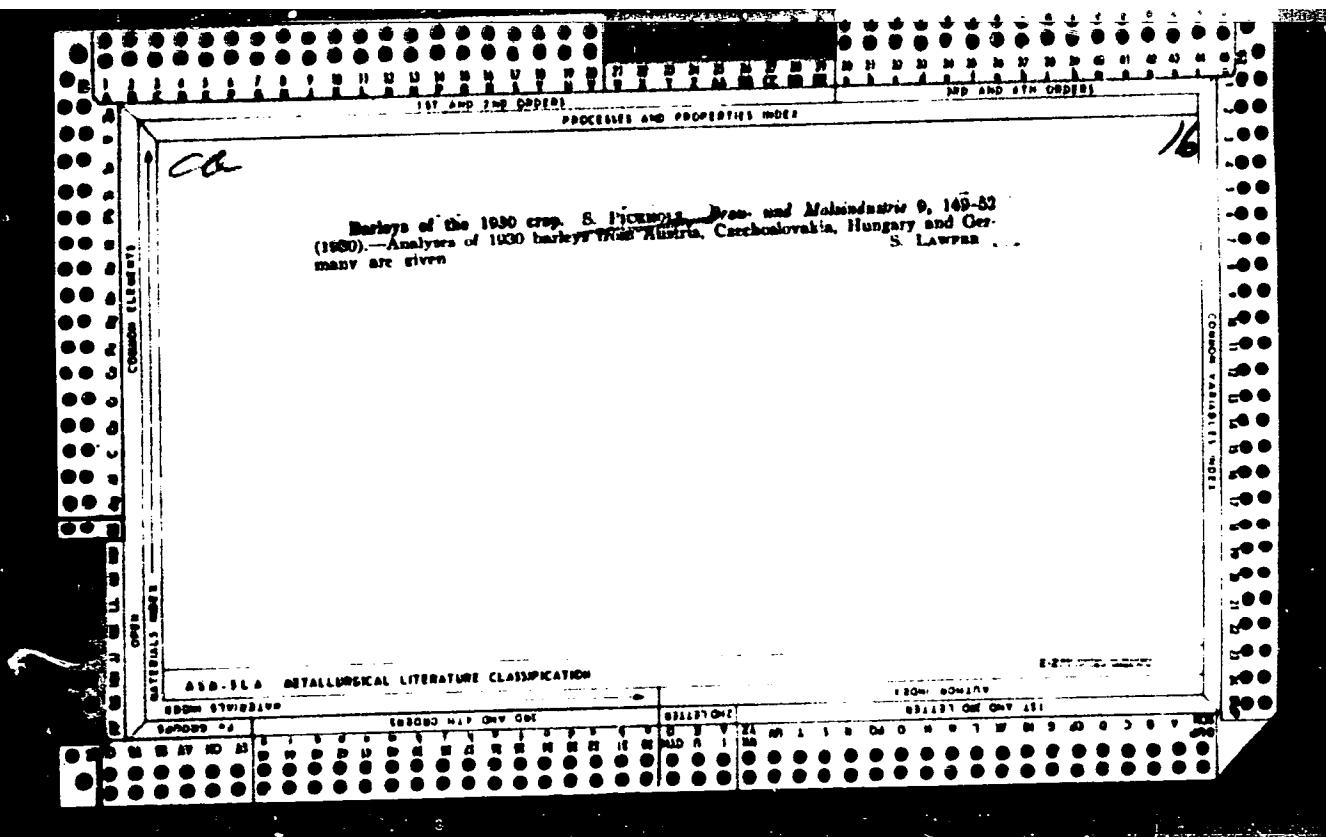
Mechanical clarification of waste waters in settling basins.
Friedrich Pickert, Z. Zuckerind., 4-681-71004).—Describes
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Members of the English trade unions have seen that in Bulgaria
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04

Dissociation of alkaline earth nitrates M. Tzentneris
and W. Pickelny "Bull. Acad. and Polonaise Classe
des sciences" 1933, 189-190. The nitrate decomposes
into the oxides, NO and NO₂. The latter oxidizes more
nitrite to nitrate, being reduced to NO. This reaction is
not reversible, thus the decompos. sets in very sharply.
The temp. depends on the superimposed (overlaid) gas pres-
sure. Ca, Sr and Ba nitrates decompose at 310°, 380°,
392° under 1 atm. An equation relating pressure and
temp. is given G. W. King

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